

## Refine Search

### Search Results -

Terms	Documents
L3 and 562/\$	26

**Database:**

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Search:**

L4

Refine Search

Recall Text

Data

Interrupt

### Search History

DATE: Sunday, June 13, 2004   [Printable Copy](#)   [Create Case](#)

**Set Name**   **Query**  
side by side

**Hit Count**   **Set Name**  
result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>L4</u>	L3 and 562/\$	26	<u>L4</u>
<u>L3</u>	L2 and multi\$1 metal oxide	32	<u>L3</u>
<u>L2</u>	L1 and propene and acrylic acid and nitrile	845	<u>L2</u>
<u>L1</u>	mo or bi or fe or thallium or zinc or silicon	2672142	<u>L1</u>

END OF SEARCH HISTORY

## Hit List



Search Results - Record(s) 1 through 10 of 26 returned.

☐ 1. Document ID: US 20040034249 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 26

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040034249

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040034249 A1

TITLE: Method for producing a multi metal oxide catalyst, method for producing unsaturated aldehydes and/or carboxylic acids and band calcination device

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Arnold, Heiko	Mannheim		DE	
Unverricht, Signe	Mannheim		DE	
Felder, Raimund	Neustadt		DE	
Harth, Klaus	Altleiningen		DE	
Muller-Engel, Klaus Joachim	Stutensee		DE	

US-CL-CURRENT: 562/547; 502/215, 502/310, 502/311, 502/313, 502/315, 502/316, 502/318, 568/474

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMBL	Draw D
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☐ 2. Document ID: US 20030204111 A1

L4: Entry 2 of 26

File: PGPB

Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204111

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030204111 A1

TITLE: Ir and/or Sm promoted multi-metal oxide catalyst

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Chaturvedi, Sanjay	Horsham	PA	US
Gaffney, Anne Mae	West Chester	PA	US
Han, Scott	Lawrenceville	NJ	US
Heffner, Michele Doreen	Chalfont	PA	US
Song, Ruozhi	Wilmington	DE	US

US-CL-CURRENT: 562/547; 502/302

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 3. Document ID: US 20030191336 A1

L4: Entry 3 of 26

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191336  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030191336 A1

TITLE: Zn and/or Ga promoted multi-metal oxide catalyst

PUBLICATION-DATE: October 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Nhu Le, Dominique Hung	Upper Darby	PA	US	

US-CL-CURRENT: 558/320; 502/302, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 4. Document ID: US 20030181761 A1

L4: Entry 4 of 26

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030181761  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030181761 A1

TITLE: Method for producing multiple-phase multi-metal oxide materials

PUBLICATION-DATE: September 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Unverricht, Signe	Mannheim		DE	
Felder, Raimund	Neustadt		DE	

Arnold, Heiko Mannheim DE  
Petzoldt, Jochen Mannheim DE

US-CL-CURRENT: 562/535; 502/306, 502/311

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 5. Document ID: US 20030176734 A1

L4: Entry 5 of 26

File: PGPB

Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030176734  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030176734 A1

TITLE: Halogen promoted multi-metal oxide catalyst

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 562/547; 502/303, 502/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 6. Document ID: US 20030018208 A1

L4: Entry 6 of 26

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018208  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030018208 A1

TITLE: Halogen promoted multi-metal oxide catalyst

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Hefener, Michele Doreen	Chalfont	PA	US	

US-CL-CURRENT: 558/338; 502/305, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. Data
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Oct 3, 2002

US-CL-CURRENT: 562/542; 502/215, 502/304, 502/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KimC	Draw D
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Sep 19, 2002

US-CL-CURRENT: 562/546; 502/304, 502/307, 502/309, 502/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 9. Document ID: US 20020072629 A1

L4: Entry 9 of 26

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072629

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072629 A1

TITLE: Zn and/or Ga promoted multi-metal oxide catalyst

PUBLICATION-DATE: June 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Le, Dominique Hung Nhu	Upper Darby	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 10. Document ID: US 20020065431 A1

L4: Entry 10 of 26

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020065431

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020065431 A1

TITLE: Promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	
Nhu Le, Dominique Hung	Upper Darby	PA	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWOC	Draw. De
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**Search Results** - Record(s) 11 through 20 of 26 returned.

☐ 11. Document ID: US 20020062042 A1

**Using default format because multiple data bases are involved.**

L4: Entry 11 of 26

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062042

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062042 A1

TITLE: PROMOTED MULTI-METAL OXIDE CATALYST

PUBLICATION-DATE: May 23, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	
Song, Ruozhi	Wilmington	DE	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw D
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☐ 12. Document ID: US 20020062038 A1

L4: Entry 12 of 26

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020062038 A1

TITLE: Ir and/or Sm promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 23, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	



Han, Scott	Lawrenceville	NJ	US
Heffner, Michele Doreen	Chalfont	PA	US
Song, Ruozhi	Wilmington	DE	US

US-CL-CURRENT: 558/319; 502/302, 502/304, 502/306, 502/308, 502/309, 502/310,  
502/312, 562/542

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 13. Document ID: US 20020058836 A1

L4: Entry 13 of 26

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058836

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020058836 A1

TITLE: PROMOTED MULTI-METAL OXIDE CATALYST

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Vickery, Elsie Mae	Jenkintown	PA	US	

US-CL-CURRENT: 562/546; 502/254, 502/255, 562/547

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. De
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☐ 14. Document ID: US 20020058835 A1

L4: Entry 14 of 26

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020058835

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020058835 A1

TITLE: Halogen promoted multi-metal oxide catalyst

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Chaturvedi, Sanjay	Horsham	PA	US	
Gaffney, Anne Mae	West Chester	PA	US	
Han, Scott	Lawrenceville	NJ	US	
Heffner, Michele Doreen	Chalfont	PA	US	

Song, Ruozhi

Wilmington

DE

US

US-CL-CURRENT: [562/546](#); [502/254](#), [502/255](#), [562/547](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 15. Document ID: US 6737545 B1

L4: Entry 15 of 26

File: USPT

May 18, 2004

US-PAT-NO: 6737545

DOCUMENT-IDENTIFIER: US 6737545 B1

TITLE: Multi-metal oxide compounds with a two-phase structure

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 16. Document ID: US 6734136 B2

L4: Entry 16 of 26

File: USPT

May 11, 2004

US-PAT-NO: 6734136

DOCUMENT-IDENTIFIER: US 6734136 B2

TITLE: IR and/or SM promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 17. Document ID: US 6700015 B2

L4: Entry 17 of 26

File: USPT

Mar 2, 2004

US-PAT-NO: 6700015

DOCUMENT-IDENTIFIER: US 6700015 B2

TITLE: Zn and/or Ga promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 18. Document ID: US 6624111 B2

L4: Entry 18 of 26

File: USPT

Sep 23, 2003

US-PAT-NO: 6624111

DOCUMENT-IDENTIFIER: US 6624111 B2

TITLE: Halogen promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 19. Document ID: US 6504053 B1

L4: Entry 19 of 26

File: USPT

Jan 7, 2003

US-PAT-NO: 6504053

DOCUMENT-IDENTIFIER: US 6504053 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw De
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☐ 20. Document ID: US 6472552 B1

L4: Entry 20 of 26

File: USPT

Oct 29, 2002

US-PAT-NO: 6472552

DOCUMENT-IDENTIFIER: US 6472552 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw De
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☐ 21. Document ID: US 6407031 B1

**Using default format because multiple data bases are involved.**

L4: Entry 21 of 26

File: USPT

Jun 18, 2002

US-PAT-NO: 6407031

DOCUMENT-IDENTIFIER: US 6407031 B1

TITLE: Promoted multi-metal oxide catalyst

DATE-ISSUED: June 18, 2002

**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chaturvedi; Sanjay	Horsham	PA		
Gaffney; Anne Mae	West Chester	PA		
Han; Scott	Lawrenceville	NJ		
Heffner; Michele Doreen	Chalfont	PA		
Song; Ruozhi	Wilmington	DE		

US-CL-CURRENT: 502/311; 502/309, 502/312, 502/322, 556/42, 556/47

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">R000C</a>	<a href="#">Draw D</a>
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☐ 22. Document ID: US 6403525 B1

L4: Entry 22 of 26

File: USPT

Jun 11, 2002

US-PAT-NO: 6403525

DOCUMENT-IDENTIFIER: US 6403525 B1

TITLE: Promoted multi-metal oxide catalyst

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">R000C</a>	<a href="#">Draw D</a>
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☐ 23. Document ID: US 6383978 B1

L4: Entry 23 of 26

File: USPT

May 7, 2002

US-PAT-NO: 6383978

DOCUMENT-IDENTIFIER: US 6383978 B1

TITLE: Promoted multi-metal oxide catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 24. Document ID: US 5583084 A

L4: Entry 24 of 26

File: USPT

Dec 10, 1996

US-PAT-NO: 5583084

DOCUMENT-IDENTIFIER: US 5583084 A

TITLE: Multimetal oxide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 25. Document ID: US 5569636 A

L4: Entry 25 of 26

File: USPT

Oct 29, 1996

US-PAT-NO: 5569636

DOCUMENT-IDENTIFIER: US 5569636 A

TITLE: Multimetal oxide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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☐ 26. Document ID: US 5521137 A

L4: Entry 26 of 26

File: USPT

May 28, 1996

US-PAT-NO: 5521137

DOCUMENT-IDENTIFIER: US 5521137 A

TITLE: Multimetal oxide compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMMC	Draw D
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